

APPENDIX B3

```

/*****
 *
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 * distribution of this program, or any portion of it, may
 * result in severe civil and criminal penalties, and will
 * be prosecuted to the maximum extent possible under the law.
 *
 *****/

/*****
 * Add the following functions for built-in Array class
 *****/

    // Push an element into a stack
Array.prototype.push = function (obj)
{
    this[this.length++] = obj;
}

    // Pop an element into a stack
Array.prototype.pop = function ()
{
    var ret = this[this.length-1];
    if (this.length > 0) --this.length;

    return ret;
}

    // Reset a stack
Array.prototype.reset = function ()
{
    this.length = 0;
}

    // Return a string after joining all elements
Array.prototype.str = function ()
{
    var str = "";
    for (var i=0; i<this.length; ++i)
    {
        str += this[i];
    }

    return str;
}

    // Extract a section of array (including 'from' & 'to' elements)
    // Return a string after joining extracted elements

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// If "to" not specified, extract until the last element.
Array.prototype.section = function (from, to)
{
    if (typeof to == "undefined") to = this.length;

    var str = "";
    for (var i=from; i<=to && i<this.length; ++i)
    {
        str += this[i];
    }

    return str;
}

// Null a section of array (including 'from' & 'to' elements)
// If "to" not specified, nullify until the last element.
Array.prototype.null_section = function (from, to)
{
    if (typeof to == "undefined") to = this.length;

    for (var i=from; i<=to && i<this.length; ++i)
    {
        this[i] = "";
    }
}

/*****
 * Codes added to work with NGS
 *****/
function FileClass() {};

FileClass.prototype.byteToString = function (ch)
{
    return ch;
}

var File = new FileClass();

/*****
 * Codes added to work with NGS
 *****/
function error (msg)
{
    return rjs_error(msg);
}

/*****
 * Alert utilities
 *****/
function rjs_alert(str)
{
    alert(str);
}

function rjs_debug(str)
{

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    // alert("debug: " + str);
}

function rjs_info(str)
{
    // alert("info: " + str);
}

function rjs_warn(str)
{
    // alert("warning: " + str);
}

function rjs_error(str)
{
    alert("RJS error: " + str);

    rjs_Error = true;
    return false;
}

/*****
 * Global variables
 *****/

var rjs_Error = false;           // error status
var rjs_Tokens = new Array();    // tokens of a statement
var rjs_Stmts = new Array();     // all statements

var rjs_AssignmentState = "";    // "", lhs, rhs of =
var rjs_BracketState = "out";    // in, out of []
var rjs_CallState = "";
var rjs_LayerState = "";        // "", doc

var rjs_XUrl_on = false;         // for inserting "rmi_xlateURL(*)"
var rjs_XUrl_setLocationTail = ""; // stores a matching tail for
"rmi_setLocation("

var rjs_XCookie_on = false;      // for inserting "rmi_setCookie(*)"
var rjs_XAction_on = false;      // for inserting "rmi_xlateURL(*)"
for "*.action="
var rjs_XInnerHTML_on = false;   // for inserting "rmi_xlate(*)"

/*****
 * Global variables - stacks storing token positions
 *
 * Each element of rjs_*_head stores the 1st token position of a chain
 * Each element of rjs_*_tail stores the last token position of a chain
 * Each element of rjs_*_Func_pos stores the function position
 * Each element of rjs_*_nesting stores a counter for tracking nesting
 * ('
 *****/

var rjs_Open_head = new Array();
var rjs_Open_tail = new Array();
var rjs_OpenFunc_pos = new Array();

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var rjs_Write_head = new Array();
var rjs_Write_tail = new Array();
var rjs_WriteFunc_pos = new Array();

var rjs_Frames_head = new Array();
var rjs_Frames_tail = new Array();
var rjs_FramesObj_pos = new Array();

var rjs_Replace_head = new Array();
var rjs_Replace_tail = new Array();
var rjs_ReplaceFunc_pos = new Array();

var rjs_Domain_head = new Array();
var rjs_Domain_tail = new Array();

var rjs_Location_head = new Array();
var rjs_Location_tail = new Array();

var rjs_Cookie_head = new Array();
var rjs_Cookie_tail = new Array();

var rjs_XUrl_nesting = new Array();
var rjs_XCookie_nesting = new Array();
var rjs_XAction_nesting = new Array();
var rjs_XInnerHTML_nesting = new Array();

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